PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY	P	CT			
To: WOLFF BREGMAN AND GOLLER P.O. Box 1352 Jerusalem 91013 ISRAEL	THE INTERNATIONAL THE WRITTEN OPINION	OF TRANSMITTAL OF L SEARCH REPORT AND N OF THE INTERNATIONAL TY, OR THE DECLARATION			
	(PC	T Rule 44.1)			
	Date of mailing (day/month/year) 01/0	2/2005			
Applicant's or agent's file reference 157837 PCT (a)	FOR FURTHER ACTION	See paragraphs 1 and 4 below			
International application No.	International filing date				
PCT/IL2004/000813	(day/month/year) 09/0	9/2004			
Applicant LUMUS LTD.					
The applicant is hereby notified that the international search Authority have been established and are transmitted herew.	n report and the written opinion of the	ne International Searching			
When? The time limit for filing such amendments is nor International Search Report; however, for more Where? Directly to the International Bureau of WIPO, 34	The applicant is entitled, if he so wishes, to amend the claims of the International Application (see Rule 46): When? The time limit for filing such amendments is normally 2 months from the date of transmittal of the International Search Report; however, for more details, see the notes on the accompanying sheet. Where? Directly to the International Bureau of WIPO, 34 chemin des Colombettes 1211 Geneva 20, Switzerland, Fascimile No.: (41–22) 740.14.35				
2. The applicant is hereby notified that no international search Article 17(2)(a) to that effect and the written opinion of the II	n report will be established and that	t the declaration under e transmitted herewith.			
3. With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:					
the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices. no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.					
4. Reminders Shortly after the expiration of 18 months from the priority date, the international application will be published by the international Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90bis.1 and 90bis.3, respectively, before the completion of the technical preparations for international publication.					
The applicant may submit comments on an informal basis on the International Bureau. The International Bureau will send a copy of international preliminary examination report has been or is to be the public but not before the expiration of 30 months from the price.	of such comments to all designated established. These comments wou	Offices unless an			
Within 19 months from the priority date, but only in respect of so examination must be filed if the applicant wishes to postpone the date (in some Offices even later); otherwise, the applicant must, acts for entry into the national phase before those designated Offices.	entry into the national phase until : within 20 months from the priority	30 months from the priority			
In respect of other designated Offices, the time limit of 30 month months.	s (or later) will apply even if no de	mand is filed within 19			
See the Annex to Form PCT/IB/301 and, for details about the app Guide, Volume II, National Chapters and the WIPO Internet site.	olicable time limits, Office by Office	, see the <i>PCT Applicant's</i>			

Name and mailing address of the International Searching Authority

European Patent Office, P.B. 5818 Patentiaan 2 NL-2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Patrick Wach

NOTES TO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article", "Rule", and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions respectively.

INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international publication. Furthermore, it should be emphasized that provisional protection is available in some States only.

What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

When?

Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been its filed, see below.

How?

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

NOTES TO FORM PCT/ISA/220 (continued)

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged:
- (ii) the claim is cancelled;
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

- [Where originally there were 48 claims and after amendment of some claims there are 51]:
 "Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers;
 claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
- [Where originally there were 15 claims and after amendment of all claims there are 11]:
 "Claims 1 to 15 replaced by amended claims 1 to 11."
- [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims]:
 "Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or "Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
- 4. [Where various kinds of amendments are made]: "Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

"Statement under article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

It must be in the language in which the international appplication is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the same time of filing the amendments with the International Bureau, also file a copy of such amendments with the International Preliminary Examining Authority (see Rule 62.2(a), first sentence).

Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, where upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see Volume II of the PCT Applicant's Guide.

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER	see Form PCT/ISA/220
157837 PCT (a)	AOTION	vell as, where applicable, item 5 below.
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)
PCT/IL2004/000813	09/09/2004	10/09/2003
Applicant		
LUMUS LTD.		
LOMOS LID.		
This International Search Report has bee according to Article 18. A copy is being to	n prepared by this International Searching A ansmitted to the International Bureau.	authority and is transmitted to the applicant
This International Search Report consists	of a total of sheets.	
X It is also accompanied by	a copy of each prior art document cited in	his report.
	international search was carried out on the less otherwise indicated under this item.	basis of the international application in the
The international this Authority (Ru		nslation of the international application furnished to
b. With regard to any nucle	otide and/or amino acid sequence disclos	sed in the international application, see Box No. I.
2. Certain claims were fou	ind unsearchable (See Box II).	
3. Unity of invention is lac	eking (see Box III).	
4. With regard to the title ,		
	ubmitted by the applicant.	
the text has been established	shed by this Authority to read as follows:	
<u> </u>		'
5. With regard to the abstract,		
I 😕 ''	ubmitted by the applicant.	the state of the s
		hority as it appears in Box No. IV. The applicant earch report, submit comments to this Authority.
6. With regard to the drawings,		
	published with the abstract is Figure No	2
as suggested by	the applicant.	
	nis Authority, because the applicant failed to	suggest a figure.
as selected by the	nis Authority, because this figure better char	acterizes the invention.
b. none of the figures is to	be published with the abstract.	

International application No.

PCT/IL2004/000813

INTERNATIONAL SEARCH REPORT

Box No. IV Text of the abstract (Continuation of item 5 of the first she	ox No. IV	Text of the abstract	(Continuation of item !	5 of the first shee
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There is provided an optical device, having a light-transmitting substrate having at least two major surfaces (26) parallel to each other and edges; optical means (16) for coupling light waves located in a field-of-view into the substrate by internal reflection, and at least one partially reflecting surface (22) located in the substrate which is non-parallel to the major surfaces of the substrate, characterized in that at least one of the major surfaces is coated with a dichroic coating.		

INTERNATIONAL SEARCH REPORT

Inte. ..ional Application No PCT/IL2004/000813

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 G02B27/01

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) IPC 7-602B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUM	ENTS CONSIDERED TO BE RELEVANT	
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
х	WO 03/058320 A (ESSILOR) 17 July 2003 (2003-07-17) page 1, line 8 - line 9 page 5, line 30 - page 7, line 23 page 9, line 16 - line 29 figures 3,4	1-17
Α	EP 0 399 865 A (THOMSON-CSF) 28 November 1990 (1990-11-28) abstract column 3, line 44 - line 56 column 4, line 50 - line 54 figure 1	3-7,9, 12,17
A	WO 98/15868 A (MICROOPTICAL CORP) 16 April 1998 (1998-04-16) page 20, line 19 - line 33 figure 11	14,15
	-/	

Further documents are listed in the continuation of box C.	Patent family members are listed in annex.
Special categories of cited documents: A document defining the general state of the art which is not considered to be of particular relevance E earlier document but published on or after the international filing date L document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) O document referring to an oral disclosure, use, exhibition or other means P document published prior to the international filing date but later than the priority date claimed	 "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "&" document member of the same patent family
Date of the actual completion of the international search 21 January 2005	Date of mailing of the international search report 01/02/2005
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer Seibert, J

IN 'RNATIONAL SEARCH REPORT

Inter. .onal Application No PCT/IL2004/000813

C.(Continu	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 4 805 988 A (DONES) 21 February 1989 (1989-02-21) column 2, line 19 - line 33 figures	14
	·	

INTRNATIONAL SEARCH REPORT

Information on patent family members

Ints .ional Application No
PCT/IL2004/000813

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
WO 03058320	A	17-07-2003	FR	2834799 A1	18-07-2003
			EΡ	1468323 A1	20-10-2004
			WO	03058320 A1	17-07-2003
			US	2003218718 A1	27-11-2003
EP 0399865	A	28-11 - 1990	FR	2647556 A1	30-11-1990
			CA	2017251 A1	23-11-1990
			DE	69008035 D1	19-05-1994
			DE	69008035 T2	28-07-1994
			EΡ	0399865 A1	28-11-1990
			JP	2888602 B2	10-05-1999
			JP	3015815 A	24-01-1991
·			US	5076664 A	31-12-1991
WO 9815868	Α	16-04-1998	US	5886822 A	23-03-1999
			CA	2268196 A1	16-04-1998
			EP	1012655 A1	28-06-2000
			JP	3429320 B2	22-07-2003
			JP	2000511306 T	29-08-2000
•			WO	9815868 A1	16-04-1998
			US	6204974 B1	20-03-2001
			US	6356392 B1	12-03-2002
			US	6384982 B1	07-05-2002
US 4805988	Α	21-02-1989	NONE		

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/IL2004/000813

							IAP20 R	ec'd F	077.770	19	DEC	2005
	Box	No. II	Priority							_		
1.		The fol	llowing document h	as not bee	n furnished	:t						
			copy of the earlier	application	whose pr	iority has b	een claime	ed (Rule	43 <i>bis</i> .1 ar	nd 66.7	7(a)).	
			translation of the e	arlier appli	cation who	ose priority	has been	claimed	(Rule 43 <i>bi</i>	is.1 an	d 66.7(b)).
		Conse	quently it has not be heless been establi	een possib shed on the	le to consi e assumpt	der the val ion that the	idity of the relevant o	priority of	claim. This ne claimed	opinio priority	on has y date.	
2.		has be	pinion has been est en found invalid (R ate indicated above	ules 43 <i>bis</i> .	1 and 64.1). Thus for	the purpos	due to t ses of th	the fact tha is opinion,	t the p	oriority o ternatio	laim nal
3.	⊠	was no	not been possible to ot available to the IS heless been establi	SA at the tir	ne that the	e search wa	as conduct	ed (Rule	e 17.1). Thi	is opin	ion has	cument
4 .		ditional o	observations, if nec		er Rule 43	8 <i>bis</i> .1(a)(i)	with rega	rd to no	velty, inve	entive	step o	r
			applicability; citat								•	
1.	Sta	tement										
	Nov	velty (N))	Yes: No:	Claims Claims	1-17						
	Inventive step (IS)			Claims								
				No:	Claims	1-17						
	Ind	ustrial a	applicability (IA)	Yes: No:	Claims Claims	1-17						
2.	Cita	ations a	nd explanations									

see separate sheet

JAP26 Res'd PCT/PTO 19 DEC 2005

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (SEPARATE SHEET)

International application No.

PCT/IL2004/000813

Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

- 1 Reference is made to the following documents:
 - D1: WO 03/058320 A (ESSILOR) 17 July 2003 (2003-07-17)
 - D2: EP-A-0 399 865 (THOMSON-CSF) 28 November 1990 (1990-11-28)
 - D3: WO 98/15868 A (MICROOPTICAL CORP) 16 April 1998 (1998-04-16)
 - D4: US-A-4 805 988 (DONES) 21 February 1989 (1989-02-21)
- The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of the independent claim 1 does not involve an inventive step in the sense of Article 33(3) PCT.
- 2.1 The document D1 is regarded as being the closest prior art to the subject-matter of claim 1, and discloses (the references in parentheses applying to this document):

An optical device comprising:

- a light-transmitting substrate having at least two major surfaces (24,32) parallel to each other and edges;
- optical means (26) for coupling the light waves located in a field-of-view into said substrate by internal reflection, and
- at least one partially reflecting surface located in said substrate which is nonparallel to said major surfaces of the substrate,
- in which at least one of said major surfaces is coated with a pigmented coating (examples).
- 2.2 The subject-matter of claim 1 therefore differs from this known optical device in that:

The at least one of the major surfaces is coated with a dichroic coating.

- 2.3 The problem to be solved by the present invention may therefore be regarded as enhancing contrast.
- 2.4 The solution proposed in claim 1 of the present application cannot be considered as involving an inventive step (Article 33(3) PCT) for the following reasons.

 The pigments used in the filter coating of D1 (see examples) are known to absorb

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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (SEPARATE SHEET)

International application No.

PCT/IL2004/000813

not only at the specified colour, but also to a certain extent in other parts of the visual spectrum, thereby reducing contrast. Interference filters, e.g. dichroic filter, are known to be more wavelength selective. It would therefore be an obvious measure to the skilled person, in order to solve the problem posed, to use dichroic filter coating instead of the pigmented coating in the device of D1 without the exercise of an inventive step.

Dependent claims 2-17 do not contain any features which, in combination with the features of any claim to which they refers, meet the requirements of the PCT in respect of inventive step, see documents D1-D4 and the corresponding passages cited in the search report.

PATENT COOPERATION TREA /

From the INTERNATIONAL SEARCHING AUTHORITY

То:		PCT		
see form PCT/ISA/220		INTERNATION	TEN OPINION OF THE NAL SEARCHING AUTHORITY PCT Rule 43 <i>bis</i> .1)	
		Date of mailing (day/month/year) see	e form PCT/ISA/210 (second sheet)	
Applicant's or agent's file reference see form PCT/ISA/220		FOR FURTHER A See paragraph 2 belo		
International application No. PCT/IL2004/000813	International filing date (day/month/year)	Priority date (day/month/year) 10.09.2003	
International Patent Classification (IPC) or G02B27/01	both national classification	and IPC	-	
Applicant LUMUS LTD.				

Name and mailing address of the ISA:

Authorized Officer

<u>@</u>)

European Patent Office - P.B. 5818 Patentlaan 2 NL-2280 HV Rijswijk - Pays Bas Tel. +31 70 340 - 2040 Tx: 31 651 epo nl Fax: +31 70 340 - 3016

Seibert, J

Telephone No. +31 70 340-4712



WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/IL2004/000813

	Bo	k No	o. I Basis of the opinion
1.			gard to the language , this opinion has been established on the basis of the international application in guage in which it was filed, unless otherwise indicated under this item.
		lar	is opinion has been established on the basis of a translation from the original language into the following iguage , which is the language of a translation furnished for the purposes of international search ander Rules 12.3 and 23.1(b)).
2.			gard to any nucleotide and/or amino acid sequence disclosed in the international application and ary to the claimed invention, this opinion has been established on the basis of:
	a. t	ype	of material:
	1		a sequence listing
	١		table(s) related to the sequence listing
	b. f	orm	at of material:
	1		in written format
	1		in computer readable form
	c. t	ime	of filing/furnishing:
			contained in the international application as filed.
	ļ		filed together with the international application in computer readable form.
			furnished subsequently to this Authority for the purposes of search.
3.		ha co	addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto s been filed or furnished, the required statements that the information in the subsequent or additional pies is identical to that in the application as filed or does not go beyond the application as filed, as propriate, were furnished.
4.	Add	ditio	nal comments: